

Diógenes S. Alves

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Senior Researcher, Instituto Nacional de Pesquisas Espaciais

Av dos Astronautas, 1758 CEP 12201-010

São José dos Campos, SP, Brasil

Phone: (55) (12) 3945-6492, 3945-6444

Fax: (55) (12) 3945-6468

Internet: dalves@dpi.inpe.br

<http://www.dpi.inpe.br/dalves/Diogenes.html>

Education

Dr. in Engineering

Doctorat de Troisième Cycle

Digital Systems, Electrical Engineering

Mathematics, Pattern recognition

Escola Politécnica, USP, Brazil, 1989

Université Paris VI, France, 1983

Areas of Interest

Land use/land cover change. Biogeochemistry. Land cover change impacts on biogeochemistry. Global climate changes. Human dimensions of global climate changes. Remote sensing. Spatial analysis.

Selected Publications

Alves, D.S., Escada, M.I.S., Pereira, J.L.G., Souza, C.L. (2003) *Land use intensification and abandonment in Rondônia, Brazilian Amazonia*. **Int. J. Remote Sensing**, 899-903

Alves, D.S. (2002) *Space-time dynamics of deforestation in Brazilian Amazonia*. **Int. J. Remote Sensing**, **23**, 2903-2908.

Alves, D.S. (2002) *An analysis of the geographical patterns of deforestation in Brazilian Amazonia in the 1991-1996 period* **In: Land Use and Deforestation in the Amazon**, Edts: C.H. Wood and R. Porro (University Press of Florida, Gainesville), 95-106.

Alves, D.S. (2001) *O processo de desflorestamento na Amazônia* **Parcerias Estratégicas**, **12**, 259-275

Alves, D.S., Pereira, J.L.G., Souza, C.L., Soares, J.V., Yamaguchi, F. *Characterizing landscape changes in Central Rondônia using TM imagery*. **Int. J. Remote Sensing**, **14**, 2877-2882 (1999)

Alves, D.S. et al. 1997. *Biomass of primary and secondary vegetation in Rondônia, Western Brazilian Amazon*. **Global Change Biology**, **3**, 451-461

- Saatchi, S.S., Soares, J.V., Alves, D.S., 1997. *Mapping Deforestation and Land Use in Amazon Rainforest using SIR-C Imagery*, **Remote Sensing of Environment**, **59**, 191-202
- Alves D.S., Skole D.L., 1996. *Characterizing land cover dynamics using multitemporal imagery*. **International Journal of Remote Sensing**, **17**, 835-839
- Alves DS, da Costa WM, Escada MIS, Lopes ESS, Souza RCM, Ortiz JD 1997. *Análise das taxas de desflorestamento dos municípios da Amazônia Legal nos períodos 1991-1992 e 1992-1994*. **Relatório técnico AMZ-R02/97** (relatório interno). INPE, São José dos Campos
- Schimel, D., Alves, D., Enting, I., Heimann, M., Joos, F., Raynaud, D., Wigley, T. 1996. *Radiative Forcing of Climate Change. CO₂ and the Carbon Cycle*. **In: Climate Change 1995** (eds. J.T. Houghton, *et al.*), Cambridge, U.K., Cambridge University Press, 65-131
- Schimel, D., Enting, I.G., Heimann, M., Wigley, T.M.L., Raynaud, D., Alves, D., and Siegenthaler, U., 1995. *CO₂ and The Carbon Cycle*. **In: Climate Change 1994, Radiative Forcing of Climate Change and An Evaluation of the IPCC IS92 Emission Scenarios** (eds. J.T. Houghton *et al.*), Cambridge, U.K., Cambridge University Press, 35-71
- McNeill, J., Alves, D., *et al.* 1994. "Toward a Typology and Regionalization of Land-Cover and Land Use Change", **in Changes in Land Use and Land Cover: A Global Perspective**, (eds. W. B. Meyer and B.L. Turner II), Cambridge, U.K., Cambridge University Press, 55-72